



Replacement Sheet (1 of 3)
Title: OSTEOPROTEGERIN IN MILK
Inventor: Vidal et al.
App. No.: 10/676,358
Docket No.: 112701-467

MKLATAFTILTAVLAAPLAAPAPDAAPAAVPEGPAAAAYSSILSVVAKQSKKFKHHKR
DLDEKDQFIVVFDSSATVDQIASEIQKLDLSLVDEDSSNGITSALDLPVYTDGSGFLGFVG
KFNSTIVDKLKESSVLTVEPDTIVSLPEIPASSAAKRETFFPKYLHYDEETSHQLLCDKC
PPGTYLKQHCTAKWKTVCAPCPDHYYTDSWHTSDECLYCSPVCKELQYVKQECNRTHNRV
CECKEGRYLEIEFCLKHRSCPPGFVVQAGTPERNTVCKRCPDGFFSNETSSKAPCRKHT
NCSVFGLLLITQKGNAHDNICSgnSESTQKCGIDVTLCEEAFFRFAVPTKFTPNWLSVLV
DNLPGTKVNAESVERIKRQHSSQEQTFOQLKLWKHQNKAQDIVKKIIQDIDLCENSVQRH
IGHANLTFEQLRSLMESLPGKKVGAEDIEKTIKACKPSDQILKLLSLWRIKNGDQDTLKG
LMHALKHSKTYHFPKTVTQSLKKTIRFLHSFTMYKLYQKLFLEMIGNQVQSVKISCL

Figure 6

1	<u>T</u> <u>CCGGCCTCTCGGCCG</u> <u>CCAAAGCTGAAACGTTCTCCAAGTACCTTCATTATGACGA</u>	60
1	xpr2 E T F P P K Y L H Y D E	12
61	AGAAACCTCTCATCAGCTGTTGTGACAAATGCTCTCTGGTACCTACCTAAAACAACA	120
13	E T S H Q L L C D K C P P G T Y L K Q H	32
121	CTGTACAGCAAAGTGGAAGACCGTGTGCGCCCCCTGCCCTGACCACTACTACACAGACAG	180
33	C T A K W K T V C A P C P D H Y Y T D S	52
181	CTGGCACACCAAGTGAAGTGTCTATACTGCAGCCCCGTGTGCAAGGAGCTGAGTACGT	240
53	W H T S D E C L Y C S P V C K E L Q Y V	72
241	CAAGCAGGAGTGCAATGCACCCACAACCGCGTGTGCAATGCAAGGAAGGGCGCTACCT	300
73	K Q E C N R T H N R V C E C K E G R Y L	92
301	TGAGATAGAGTTCTGCTTGAACACATAGGAGCTGCCCTCTGGATTTGGAGTGGTGCAAGC	360
93	E I E F C L K H R S C P P G F G V V Q A	112
361	TGGAACCCCAGAGCAGAAATACAGTTGCAAAAGATGTCCAGATGGTTCTCTCAAATGA	420
113	G T P E R N T V C K R C P D G F F S N E	132
421	GACGTCACTAAAGCACCCCTGTAGAAAACACACAAATTGCAAGTGTCTTGGTCTCTGCT	480
133	T S S K A P C R K H T N C S V F G L L L	152
481	AACTCAGAAAGGAAATGCAACACACGACAACATATGTTCCGAAACAGTGAATCAACTCA	540
153	T Q K G N A T H D N I C S G N S E S T Q	172
541	AAAATGTGGAATAGATGTTACCTGTGTGAGGAGGCATTCTCAGGTTGCTGTTCTAC	600
173	K C G I D V T L C E E A F F R F A V P T	192
601	AAAGTTACGCTTAACGGCTTAGTGTCTGGTAGACAATTGCTGGCACCAAAGTAAA	660
193	K F T P N W L S V L V D N L P G T K V N	212
661	CGCAGAGAGTGTAGAGAGGATAAAACGGCAACACAGCTACAAGAACAGACTTCCAGCT	720
213	A E S V E R I K R Q H S S Q E Q T F Q L	232
721	C	
233	GCTGAAGTTATGGAAACATCAAAACAAAGCAAGATATAGTCAGAACAGATCATCCAAGA	780
	L K L W K H Q N K D Q D I V K K I I Q D	252
	A	
781	TATTGACCTCTGTGAAAACAGCGTGCAGCGCACATTGGACATGCTAACCTCACCTCGA	840
253	I D L C E N S V Q R H I G H A N L T F E	272
841	273 Q L R S L M E S L P G K K V G A E D I E	900
	GCAGCTTCGTAGCTTGATGGAAAGCTTACCGGGAAAGAAAGTGGAGCAGAACAGATTGA	292
901	AAAACAATAAAGGCATGCAAACCCAGTGACCAAGATCTGAAGCTGCTCAGTTGTGGCG	960
293	K T I K A C K P S D Q I L K L L S L W R	312
961	AATAAAAAATGGCGACCAAGACACCTTGAAGGGCTAATGCACGCACTAAAGCACTCAA	1020
313	I K N G D Q D T L K G L M H A L K H S K	332

Figure 7A Sequence of milk OPG.

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1021	GACGTACCACTTTCCAAA	CTGTCACTCAGAGTCTAAAGAAGACC	CATCAGGTTCC	TTCA	1080
333	T Y H F P K T V T Q S L K K T I R F L H				352
1081	CAGCTTCACAATGTACAAATTG	TATCAGAAGTTATTTT	AGAAATGATAGGTAACC	CAGGT	1140
353	S F T M Y K L Y Q K L F L E M I G N Q V				372
1141	CCAATCAGTAAAATAAGCTGCTTATA	AACTAGTATCACTAGT			1182
373	Q S V K I S C L				380

Figure 7B Sequence of milk OPG. (Continued)